

## **AMENDMENTS TO THE CLAIMS**

*The listing of claims will replace all prior versions and listings of claims in the application:*

1. **(Currently Amended)** A computer program product located to one or more storage media devices usable to perform integration of mixed format data, said computer program product comprising instructions executable by a computer to perform the functions of:

accessing a database of structured and unstructured data,

reading customer records from said database, a record including a structured data portion and a free text portion;

linguistically parsing the identified ~~text records~~ free text portions in the customer records to generate a linguistic parse that includes at least syntactic roles in the free text portions;

identifying thematic roles and relationships within the parsed ~~text records~~ based in part on the identified syntactic roles, wherein the identification of thematic roles and relationships maps the syntactic roles to a smaller set of categories for each grammatical permutation of the identified text portions;

applying caseframes to the linguistic parse and thematic roles and relationships ~~identifications producing to produce~~ attribute extractions, each of said attribute extractions containing attribute information of the free text portions; ~~derived source text;~~

integrating the extractions with the structured data, said integrating step producing integrated data; and

rendering at least one visual representation of the integrated data.

2. **(Currently Amended)** A computer program product according to claim 1, wherein said accessing the database of structured and a source of unstructured data comprises accessing ~~accesses~~ unstructured data contained within the ~~database of structured data.~~

3. **(Currently Amended)** A computer program product according to claim 1, wherein said accessing a database of structured and a source of unstructured data and ~~said accessing a database of structured data~~ access comprises accessing two separate data sources.

4. **(Currently Amended)** A computer program product according to claim 1, wherein said instructions are further executable to perform the function of applying caseframes while linguistically parsing the identified free text portions. ~~performing said interpreting the free text.~~

5. **(Original)** A computer program product according to claim 1, wherein said instructions are further executable to perform the function of producing a new database containing the integrated data produced by said integrating.

6. **(Currently Amended)** A computer program product according to claim 1, wherein said instructions are further executable to perform the function of inserting the integrated data into the database of structured and unstructured data while performing said integrating the extractions with the structured data. ~~of the integrated data.~~

7. **(Previously Presented)** A computer program product according to claim 1, wherein said instructions are further executable to perform the function of creating a new database while performing said integrating step.

8. **(Original)** A computer program product according to claim 7, wherein the instructions are further executable to produce a new relational database containing the integrated data produced by said integrating.

9. **(Original)** A computer program product according to claim 7, wherein the instructions are further executable to produce a file containing the integrated data produced by said integrating.

10. **(Original)** A computer program product according to claim 9, wherein the instructions are further executable to produce a file having a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

11. **(Original)** A computer system including a computer program product according to claim 1, further comprising: a processing unit coupled to said one or more storage media devices, said processing unit being capable of executing said instructions; and an execution command unit, whereby operation of said instructions and said processing unit may be commanded or controlled.

12. **(Previously Presented)** A computer program product according to claim 1, wherein said instructions are further executable to store an integrated database while performing said integrating step.

13. **(Currently Amended)** A computer program product according to claim 1, wherein the integrated data produced by the performance of said integrating step includes reference information to the original free text—~~for construed data.~~

14. **(Currently Amended)** A computer program product according to claim 1 wherein said instructions are further executable to provide the functions of: accepting a user indication to make a selection to drill down in [[a]] the rendering of the at least one [[a]] visual representation of the integrated data; displaying the original free text portion referenced by the included reference information of the data selected by the user.

15. **(Currently Amended)** A computer program product located to one or more storage media devices usable to perform integration of mixed format data, said computer program product comprising instructions executable by a computer to perform the functions of:

accessing a database of structured data and unstructured data that is related to the structured data, the unstructured data including free text;

linguistically parsing the free text from said database to generate a linguistic parse that includes at least syntactic roles;

identifying thematic roles and relationships within the linguistic parse, wherein the thematic roles identify relationships existing in the free text and removes certain grammatical information from the syntactic roles; ~~parsed text~~;

~~applying caseframes to the linguistic parse and applying thematic identifications to the thematic roles and relationships~~ to produce attribute extractions, each of said attribute extractions containing attribute information of the parsed free text;

integrating the extractions with the structured data, said integrating step producing integrated data;

providing the integrated data to a data visualization application.

16. **(Currently Amended)** A computer program product according to claim 15, wherein said ~~accessing a source of~~ a database of structured data and unstructured data ~~accesses~~ comprises accessing unstructured data contained within the database of structured data.

17. **(Currently Amended)** A computer program product according to claim 15, wherein said ~~accessing a source of,~~ a database of structured data and unstructured data ~~and said accessing a database of structured data~~ comprises accessing ~~access~~ two separate data sources.

18. **(Currently Amended)** A computer program product according to claim 15, wherein said instructions are further executable to perform the function of applying caseframes while identifying thematic roles and relationships.  
~~performing said interpreting the free text.~~

19. **(Original)** A computer program product according to claim 15, wherein said instructions are further executable to perform the function of producing a new database containing the integrated data produced by said integrating.

20. **(Currently Amended)** A computer program product according to claim 15, wherein said instructions are further executable to perform the function of inserting the ~~produced~~ integrated data into the database of structured data while performing said integrating function.

21. **(Previously Presented)** A computer program product according to claim 15, wherein said Instructions are further executable to perform the function of creating a new database while performing said integrating step.

22. **(Previously Presented)** A computer program product according to claim 21, wherein the instructions are further executable to produce a new relational database containing the integrated data.

23. **(Original)** A computer program product according to claim 21, wherein the instructions are further executable to produce a file containing the integrated data produced by said integrating.

24. **(Original)** A computer program product according to claim 21, wherein the instructions are further executable to produce a file having a format

selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

25. **(Original)** A computer system including a computer program product according to claim 15, further comprising: a processing unit coupled to said one or more storage media devices, said processing unit being capable of executing said instructions; and an execution command unit, whereby operation of said instructions and said processing unit may be commanded or controlled.

26. **(Previously Presented)** A computer program product according to claim 15, wherein said instructions are further executable to store an integrated database while performing said integrating step.

27. **(Previously Presented)** A computer program product according to claim 15, wherein the integrated data produced by the performance of said integrating includes reference information to the original free text.

28. **(Currently Amended)** A method for integrating mixed format data, comprising the steps of:

accessing a database of structured and unstructured data, the unstructured data including free text and the free text relating to the structured data;

linguistically parsing free text from said unstructured data to identify syntactic roles in the free text;

identifying thematic roles and relationships within the parsed free text, the thematic roles and relationships establishing a relationship between a portion of the free text and at least one action included in the free text;

applying caseframes and thematic identifications to the linguistic parse to produce attribute extractions, each of said attribute extractions containing attribute information of the parsed free text;

integrating the attribute extractions with the structured data to produce integrated data; and

rendering at least one visual representation of the integrated data.

29. **(Currently Amended)** A method according to claim 28, wherein said accessing ~~a source of~~ the database of structured and unstructured data ~~accesses~~ comprises accessing unstructured data contained within the database of structured data.

30. **(Currently Amended)** A method according to claim 28, wherein said accessing ~~a source of~~ a database of structured and unstructured data ~~and~~ said comprises accessing a database of structured data access two separate data sources.

31. **(Cancelled)**

32. **(Original)** A method according to claim 28, further comprising the step of producing a new database containing the integrated data produced by said integrating.

33. **(Original)** A method according to claim 28, further comprising the step of inserting the produced data into the database of structured data.

34. **(Original)** A method according to claim 28 further comprising the step of creating a new database.

35. **(Original)** A method according to claim 34, wherein the new database is a relational database.

36. **(Original)** A method according to claim 34, wherein new database includes at least one file containing the integrated data produced by said integrating.

37. **(Original)** A method according to claim 36, wherein the new database has a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

38. **(Currently Amended )** A method according to claim 28, wherein said step of integrating the attribute extractions with the structured data ~~produced data~~ stores the integrated data as an integrated database.

39. **(Currently Amended)** A method according to claim 28, wherein the integrated data ~~produced by the performance of said integrating the produced data~~ includes reference information to the original free text.



40. **(Original)** A method according to claim 39, further comprising the steps of: accepting a user indication to make a selection to drill down in a rendering of a visual representation of the integrated data; displaying the original free text referenced by the included reference information of the data selected by the user.